
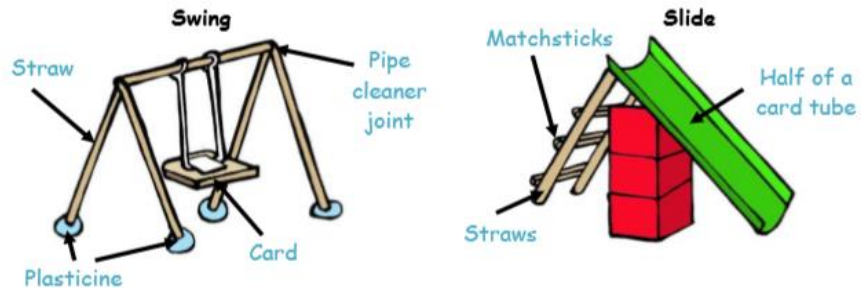


# Year 1/2: Freestanding Structures

Subject Specific Vocabulary		Prior Learning EY	Sticky Knowledge	
<b>freestanding structure</b>	a structure that stands on its own foundation or base without attachment to anything else.	Experience of using construction kits to build walls, towers and frameworks. Experience of using of basic tools e.g. scissors or hole punches with construction materials e.g. plastic, card. Experience of different methods of joining card and paper.	<p><b>Technical knowledge and understanding</b></p> <p>Build walls with these different patterns. Tap away the centre brick in the bottom row of each wall in turn. What happens? Which wall is the strongest?</p> 	
<b>stability</b>	in relation to a freestanding structure, the extent to which it is likely to fall over if a force is applied.	<h2>Future Learning Y3/4</h2>		
<b>buttress</b>	a structure added to a wall, tower or framework to make it more stable and/or reinforce it.			
<b>brick bonding</b>	arranging bricks in a wall to improve the performance of the structure or improve its appearance.			
<b>mock up</b>	3-D representation of a product.			

- Investigate different kinds of bridge structures and the types of materials used to make them.
- Explore construction using different kits.
- Measure mark out and cut a range of chosen materials, these could be new or reclaimed.
- Think of ways to make a structure stronger try out folding materials or adding support to keep them stable.
- Pupils create a success criteria for their model and accurately base their evaluations upon its success.

## Techniques for assembling freestanding structures



## Make a bridge for the Three Billy Goats Gruff

